#### **ATTACHMENT J15**

# **Laughlin AFB Electric Distribution System**

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# J15 Laughlin AFB Electric Distribution System

# J15.1 Laughlin AFB Overview

Laughlin AFB, located 7 miles east of Del Rio in Val Verde County, Texas, is an Air Education and Training Command (AETC) installation that functions primarily as a pilot training base. The host command is the 47th Flying Training Wing (47 FTW), which conducts Specialized Undergraduate Pilot Training (SUPT) for U.S. and international pilots. Laughlin AFB also hosts a number of tenant units, including:

- Base Commissary and Base Exchange
- American Red Cross
- Air Force Office of Special Investigations
- Defense Investigative Service
- Defense Reutilization and Marketing Office
- U.S. Army Corps of Engineers
- U.S. Postal Service

The Main Base occupies 4,516 acres and contains 528 buildings enclosing approximately 2.3 million square feet (sf). Laughlin AFB has three parallel runways, and approximately 260 functional aircraft are assigned to the 47 FTW. Unincorporated Val Verde County to the east borders the Base, west, and south and by Interstate 90 and a Union Pacific Railroad line to the north. The Base has a total population of approximately 3,100, including military personnel and civilian employees. Laughlin AFB's annual payroll is approximately \$95 million (combined military and civilian) and the Base is estimated to contribute approximately \$20.5 million to the local economy through civilian employment, contracting, and purchases from local businesses.

The Base was established in 1942 as the Army Air Force Advanced Flying School. It was closed temporarily after the end of World War II, but reactivated as Laughlin AFB during the Korean Conflict. Laughlin AFB has been a SUPT installation since 1962. New facilities have been added or upgraded throughout the years to accommodate changing missions and new aircraft, and consolidation of SUPT activities due to BRAC is expected to increase the number of pilots training at Laughlin AFB. Current mission plans, however, do not call for expansion of the airfield or cantonment. Laughlin AFB's facilities and airfield cover just over half of the 4,500-acre Main Base, leaving more than 2,000 acres of recreational areas and open space.

Most of the planned capital improvement projects involve upgrades or repairs to the existing facilities. Key new projects planned for the Base are:

- Corrosion Control Facility
- Security Forces Squadron

<sup>&</sup>lt;sup>1</sup> The nonresidential structures include offices, industrial maintenance and repair facilities, flight operations structures, and community service facilities (e.g., the clinic). Military housing units comprise 330 of the 540 on-base structures, and include single-family residences, dormitories, and Temporary Lodging Facilities (TLFs).

- JPATS Beddown
- Gas Station
- ERRC
- Gymnasium

These projects, if implemented, will increase the total square footage of buildings on base by approximately 4 percent.

# J15.2 Electric Distribution System Description

### J15.2.1 Electric Distribution System Fixed Equipment Inventory

The Laughlin AFB electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, protective devices, utility poles, ductbanks, meters, switches, lighting on poles (street, parking, security, and ball field), and other ancillary fixed equipment. Lighting on poles includes the footings, pole, fixtures, sensors, and electric cable from point of demarcation defined in the Right of Way. The actual inventory of items sold will be established in the Bill of Sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

- Parking lot, street lights, and security lights that are fed directly from buildings.
- Security lights that are mounted directly on buildings.
- O.B. Lighting on antenna tower and tall structures.
- Water tower beacon lights.

#### J15.2.1.1 Description

Electric power is supplied to Laughlin AFB through two 12.47/7.2-kilovolt (kV) distribution circuits. Both Central Power and Light (CPL) and the Base individually meter these two circuits. The CPL meters are located just inside the perimeter gate and the Base meters are located at the main switching station.

The CPL circuits feed into the main switching station, a steel building (Building 1000) located in the northwest corner of the Base. Each circuit is connected to parallel breakers that feed into a bus section. Each of the two bus sections feed two distribution feeders to the base, for a total of four distribution circuits (designated A through D). A single CPL line in the event of a problem with the other line may feed the Base distribution system. This is accomplished by closing a tiebreaker between the two main busses if necessary.

The distribution system consists of three-phase, four-wire line rated at 15 kV; the overhead portion currently total approximately 69,000 linear feet (lf) and the underground portions (in conduit) total approximately 50,000 lf. The housing units constitute the majority of the underground circuits; these sections of the Base were converted to back-lot underground circuits in approximately 1995. Within the housing area, there is a single pad-mount transformer and panelboard feeding roughly every three houses and a lighting circuit within the immediate area.

There are a total of eleven reclosers that are used to section off areas of the Base during system faults; this minimizes the number of users without power. In addition, each area of the Base may be fed from multiple directions.

The overhead circuits, substation, and most of the single-phase transformers were constructed in the 1950s. The underground circuits and three-phase transformers were constructed in the 1990s.

#### J15.2.1.2 Inventory

**Table 1** provides a general listing of the major electric distribution system fixed assets for the Laughlin AFB electric distribution system included in the sale.

 TABLE 1

 Fixed Inventory

 Flectric Distribution System Laughlin AFR

Item	Size	Quantity	Unit	Approximate Year of Construction
<u>Substations</u>				
Main		1	EA	1955
<b>Underground Circuits</b>	<u>AWG</u>	Length (ft)		
3ph, 4w, 15000V, in conduit	#2	50,150	LF	1995
Overhead Circuits				
3ph, 4w, 15000V, Conductor	#6 CU	18724	LF	1955
3ph, 4w, 15000V, Conductor	#2 CU	4417	LF	1955
3ph, 4w, 15000V, Conductor	#4 ACSR	1300	LF	1955
3ph, 4w, 15000V, Conductor	#2 ACSR	8350	LF	1955
3ph, 4w, 15000V, Conductor	#336 ACSR	36160	LF	1955
<u>Transformers</u>	Nom kVA	<u>No.</u>		
3-Phase	75	3	EA	1995
3-Phase	112.5	3	EA	1995
3-Phase	150	4	EA	1995
3-Phase	300	5	EA	1995
3-Phase	500	6	EA	1995
3-Phase	750	2	EA	1995
3-Phase	1000	1	EA	1995
1-Phase	37.5	49	EA	1995
1-Phase	50	51	EA	1995
1-Phase	5	3	EA	1955
1-Phase	10	10	EA	1955
1-Phase	15	12	EA	1955
1-Phase	25	26	EA	1955

Item	Size	Quantity	Unit	Approximate Year of Construction
1-Phase	37.5	24	EA	1955
1-Phase	50	27	EA	1955
1-Phase	75	7	EA	1955
1-Phase	100	17	EA	1955
1-Phase	167	3	EA	1955
<u>Utility Poles</u>	Height (ft)	<u>No.</u>		
	40	571	EA	1955
	Other	118	EA	1955
<u>Switches</u>	<u>Type</u>	<u>No.</u>		
	2-Way	34	EA	1955
<u>Vaults</u>	<u>Type</u>	<u>No.</u>		
	Utility	11	EA	1995
<u>Lighting</u>	<u>Type</u>	No.		
	Street	591	EA	1985
Parking and other street lights				
Building 25 (Metal Pole)	Parking	1/1	ea	
Building 253 (Metal Pole)	Parking	4/4	ea	
Building 68 (Metal Pole)	Parking	4/8	ea	
Building 100 (Metal Pole)	Parking	15/15	ea	
Building 328 (Metal Pole)	Parking	9/18	ea	
Building 320 (Metal Pole)	Parking	6/12	ea	
Building 255/256 (Metal Pole)	Parking	11/22	ea	
Building 462 (Metal Pole)	Parking	3/6	ea	
Building 462 (Metal Pole)	Parking	5/10	ea	
Building 352 (Metal Pole)	Parking	2/4	ea	
Building 449/450 (Main Pole)	Parking	10/10	ea	
Building 475 (Metal Pole)	Parking	5/10	ea	
Building 468 (Metal Pole)	Parking	1/1	ea	
Building 9 (Metal Pole)	Parking	8/10	ea	
Building 7 (Metal Pole)	Parking	2/4	ea	
Building 246 (Metal Pole)	Parking	8/8	ea	
Building 140 (Metal Pole)	Parking	4/8	ea	
Fuels (Metal Pole)	Parking	8/8	ea	
DRMO (Metal Pole)	Parking	6/12	ea	
Building 2027 (Metal Pole)	Parking	5/5	ea	
Building 1000 (Metal Pole)	Parking	4/8	ea	
Horse Stables (Wood Pole)	Parking	7/7	ea	
Building 358 (Metal Pole)	Parking	1/2	ea	
Building 2065 (Wood Pole)	Parking	8/20	ea	
Building 375 (Metal Pole)	Parking	10/10	ea	
Building 2007 (Metal Pole)	Parking	8/63	ea	
Building 485 (Wood Pole)	Parking	8/34	ea	
Building 399 (Metal Pole)	Parking	15/15	ea	
Tennis Court (Metal Pole)	Parking	14/30	ea	

	Item	Size	Quantity	Unit	Approximate Year of Construction
Building	284 (Wood Pole)	Parking	8/36	ea	
Running	Track (Metal Pole)	Parking	8/22	ea	
Building	Trail (Metal Pole)	Parking	72/72	ea	
Apron S	Security	Apron	25/100		
Notes:	Nom kVA = nominal kilovolt-amperes ea = each ph – phase w = wire		AWG = American If = linear feet V = volts	Wire Gauge	

J15.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools Inventory

**Table 2** lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the sale. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

**TABLE 2**Spare Parts

Electric Distribution System Laughlin AFB

Qty	Item	Make/Model	Description	Remarks
Uti	ility poles		Poles range from 30 to 50 foot in length	
Pole and pad mount transformers				

#### TABLE 3

Specialized Equipment and Vehicles

Electric Distribution System Laughlin AFB

Description	Quantity	Location	Maker
No specialized equipment and vehicles are included in the privatization of this utility system.			

### J15.2.3 Electric Distribution System Manuals, Drawings, and Records

**Table 4** lists the manuals, drawings, and records that will be transferred with the system.

#### TABLE 4

Manuals, Drawings, and Records

Electric Distribution System Laughlin AFB

Qty	Item	Description	Remarks
1	CD	Utility System Drawings	Electric Distribution System
	Records	Recurring Work Program Records	
	Records	Meter reading record book	
	Reports	Past Electrical Engineering study reports	

## J15.3 Specific Service Requirements

The service requirements for the Laughlin AFB electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Laughlin AFB electric distribution system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

• In accordance with paragraph C.5.1.3, *Contractor Facilities*, all new and renewal electric utility services shall be placed underground unless otherwise agreed to by both parties.

- The Contractor shall coordinate with the Base Civil Engineer, or equivalent agency as designated by the contracting officer, any changes to the street lights or security lights that may affect blackout procedures during Government operations (see Paragraph C.9.8).
- The Contractor shall coordinate with the Base Civil Engineer, or equivalent agency as designated by the contracting officer, any changes to the obstruction lights on power poles that may affect blackout procedures during Government operations.
- The Contractor shall provide monthly meter reading reports IAW Paragraph J15.6, and that meet the following requirements:
  - The Contractor shall keep meter books with monthly consumption and demand (if applicable) for each meter reading. Meter books shall also include building address or facility number, meter number, previous month readings, current month readings, multipliers for each meter, total monthly consumption, points of contact for meter questions, and procedure for converting meter reads into consumption (including multipliers). The Contractor shall coordinate with the Government to determine the format for the meter books to be delivered.
- The Contractor shall operate and maintain the base switching station, including all electrical and HVAC equipment within the station, and all other related structures including but not limited to inside ground areas, transformer pads and protective fencing. Grounds and structures areas shall be maintained IAW the Right of Way.
- The Contractor shall enter into a Memorandum of Understanding with the Laughlin Air Force Base Fire Department for fire protection of all facilities included in the purchase of the utility. The Contractor shall abide by Laughlin AFB fire protection requirements. The Contractor shall maintain the fire alarm system for all facilities included in the purchase of the utility. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.
- IAW Paragraph C.9.8, Exercises and Crisis Situations Requiring Utility Support, the Contractor shall provide support as directed by the Laughlin Air Force Base Civil Engineer Control Center for exercises and crisis situations.
- For all privatized lighting fixtures, operations and maintenance of lighting fixtures includes the purchase and replacement of the lighting element and the removal and disposal of replaced lighting element.

## J15.4 Current Service Arrangement

Currently Central Power and Light (CPL), a subsidiary of Central and Southwest Corporation (CSW), supplies power to Laughlin AFB through two 12.47/7.2-kilovolt (kV) distribution circuits. Electric power annual consumption at Laughlin AFB is about 38 million kilowatt-hours (kWh). The peak demand for FY98 was approximately 8.8 megawatts (MW), occurring in July.

As noted in Section J15.1, key projects planned for Laughlin AFB will increase the total square footage of buildings on Base by about 4 percent.

# J15.5 Secondary Metering

The Installation may require secondary meters for internal billings of their reimbursable customers, utility usage management, and energy conservation monitoring. The Contractor shall assume full ownership and responsibility for existing and future secondary meters IAW Paragraph C.3.

### J15.5.1 Existing Secondary Meters

**Table 5** provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings once a month for all secondary meters IAW Paragraph C.3 and J15.6 below.

**TABLE 5**Existing Secondary Meters
Electric Distribution System Laughlin AFB

Building No.	Meter Location	Meter Description
7	Contracting	Electric meter
8	DOSS Aviation POL	Electric meter
9	Vehicle Refueling	Electric meter
77	Supply	Electric meter
100	Base Civil Engineer	Electric meter
114	Housing Maintenance	Electric meter
115	New AAFES Gas Station	Electric meter
131	Motor Pool	Electric meter
190	Flightline	Electric meter
195	Flight Line Shack	Electric meter
201	Flight Line Shack	Electric meter
212	Flight Line Shack	Electric meter
213	Flight Line Shack	Electric meter
216	Flight Line Shack	Electric meter
217	Flight Line Shack	Electric meter
235	Comm Center	Electric meter
241	Communications	Electric meter
245	Cold Storage	Electric meter
246	Mission Support Squadron	Electric meter
253	Airman's Dining Hall	Electric meter
255	Unaccompanied Enlisted Qtrs	Electric meter
256	Unaccompanied Enlisted Qtrs	Electric meter
257	Book Mark Library	Electric meter
257	Book Mark Library	Electric meter
257	Book Mark Library	Electric meter
284	Club XL-Enlisted Annex	Electric meter
284	Club XL-Enlisted Annex	Electric meter
303		Electric meter
320		Electric meter
328	TRAN A	Electric meter
328	TRAN B	Electric meter
328	TRAN CA	Electric meter

Meter Description
Electric meter
Electric meter Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter
Electric meter

Building No.	Meter Location	Meter Description
OCR9		Electric meter
OCR10		Electric meter
OCR11		Electric Meter
ATM	ATM Fiesta Center Parking Lot	Electric meter
100	O'Neal	Electric meter
101	O'Neal	Electric meter
102	O'Neal	Electric meter
103	O'Neal	Electric meter
104	O'Neal	Electric meter
105	O'Neal	Electric meter
106	O'Neal	Electric meter
107	O'Neal	Electric meter
108	O'Neal	Electric meter
109	O'Neal	Electric meter
110	O'Neal	Electric meter
200	Rickenbacker	Electric meter
201	Rickenbacker	Electric meter
202	Rickenbacker	Electric meter
203	Rickenbacker	Electric meter
204	Rickenbacker	Electric meter
205	Rickenbacker	Electric meter
206	Rickenbacker	Electric meter
207	Rickenbacker	Electric meter
208	Rickenbacker	Electric meter
209	Rickenbacker	Electric meter
210	Rickenbacker	Electric meter
300	Anderson	Electric meter
301	Anderson	Electric meter
302	Anderson	Electric meter
303	Anderson	Electric meter
304	Anderson	Electric meter
305	Anderson	Electric meter
306	Anderson	Electric meter
307	Anderson	Electric meter
308	Anderson	Electric meter
309	Anderson	Electric meter
400	Jones	Electric meter
401	Jones	Electric meter
402	Jones	Electric meter
403	Jones	Electric meter
404	Jones	Electric meter
405	Jones	Electric meter
406	Jones	Electric meter
407	Jones	Electric meter
408	Jones	Electric meter
409	Jones	Electric meter
410	Jones	Electric meter
500	SPAATZ	Electric meter
501	SPAATZ	Electric meter
502	SPAATZ	Electric meter

Building No.	Meter Location	Meter Description
503	SPAATZ	Electric meter
504	SPAATZ	Electric meter
505	SPAATZ	Electric meter
506	SPAATZ	Electric meter
507	SPAATZ	Electric meter
508	SPAATZ	Electric meter
509	SPAATZ	Electric meter
510	SPAATZ	Electric meter

#### J15.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J15.6 below.

**TABLE 6**New Secondary Meters
Electric Distribution System Laughlin AFB

Building No.	Meter Location	Meter Description
449/450	UOQ Dorms	Electric meter
470	Lodging	Electric meter
390	Youth Center	Electric meter
820	RAPCON	Electric meter
130/136/2109	Transportation Yard/Dispatch	Electric meter
209	T-38 Wash Rack	Electric meter
506	T-37 Wash Rack	Electric meter

### J15.6 Submittals

The Contractor shall provide the Government submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to:

Name: 47th CES/CEOE

Address: 251 Fourth Street, Laughlin AFB, TX 78843

Phone number: (830) 298-5960

2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall include the following information for Scheduled and Unscheduled outages:

**Scheduled:** Requestor, date, time, duration, facilities affected, feedback provided during outage, outage notification form number, and digging clearance number.

<u>Unscheduled:</u> Include date, time and duration, facilities affected, response time after notification, completion times, feedback provided at time of outage, specific item failure, probability of future failure, long term fix, and emergency digging clearance number.

Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to:

Name: 47th CES/CEOE

Address: 251 Fourth Street, Laughlin AFB, TX 78843

Phone number: (830) 298-5960

3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters. The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the first of each month for the previous month. Meter reading reports shall be submitted to:

Name:47th CES/CEOE

Address: 251 Fourth Street, Laughlin AFB, TX 78843

Phone number: (830) 298-5960

4. System Efficiency Report. The Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. The Contracting Officer will determine the frequency of the report based on Government requirements. System efficiency reports shall be submitted to:

Name: 47th CES/CEOE

Address: 251 Fourth Street, Laughlin AFB, TX 78843

Phone number: (830) 298-5960

# J15.7 Energy Saving Projects

IAW Paragraph C.3, Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes.

• There currently are no active energy saving projects.

### J15.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Laughlin AFB boundaries.

### J15.9 Off-Installation Sites

Under this Contract, the Laughlin AFB electric distribution system includes the electric distribution systems at two instrument landing systems (ILS) and a glide slope indicator (GLS) site.

The two instrument landing systems (ILS) and a glides slope indicator (GLS) site are located adjacent to the Laughlin AFB runway. These facilities consist of four building structures including two instrument landing systems (ILSs), housing for a glide slope indicator (GLS), and a runway surveillance unit (RSU) for flight training exercises.

The ILSs and GLS facilities are supplied power from a 13,200/2400 V transformer on the Base electric distribution system. The distribution circuit is an underground 2,400-volt circuit to a manhole in the runway area. Single-phase taps provide service to the ILS, the RSU and the glide slope indicator. A single-phase tap services a remote transformer on the south side of the Base.

The circuits consists of approximately 7,000 feet of underground single-phase circuit rated at 5 kV, 1,000 feet of three-phase underground circuit, 600 feet of single-phase overhead circuit, a switchgear cabinet and four 25 kVA single-phase distribution transformers. The circuits are #2/0 cable in conduit. The system construction date is estimated to be 1975.

## J15.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

#### TABLE 7

Service Connections and Disconnection's Electric Distribution System Laughlin AFB

Location Description

The Government does not require any connection or disconnections during the transition period.

# J15.11 Government Recognized System Deficiencies

**Table 8** provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Laughlin AFB electric distribution system. If the electric distribution system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through Schedule L-3. Renewal and Replacement projects will be recovered through Sub-CLIN AB.

#### TABLE 8

System Deficiencies

Electric Distribution System Laughlin AFB

Project Identifier/Location	Project Description
Remove Primary Overhead Lines	Remove overhead lines that run through the fuels yard and replace with underground lines connected to a ground-mounted transformer.
Remove Primary Overhead Lines	Remove overhead lines in the industrial areas (1 <sup>st</sup> and 2nd st.) and replace with underground lines connected to a ground-mounted transformer.
Provide 7200/12470 volt.	Looped underground distribution system for the airfield facilities currently with 2400/4160 volt system.
Main Base Switching Station	Main Base Switching Station has not been serviced for the past 10 years. The Oil Current Reclosers have not been properly tested/calibrated.
	Provide loop system from MFH Area I to the RAPCON facility.